St Louis May 16 1875.

G. W. Letterman Esq 6/15/53.

Dear Sir

Your plants have been rec'd all right; but am sorry there is no office in town, 201 South 5th Str. in future, to avoid trouble & Expense, as the Express Co's do not bring out things here.

1 Veronica peregrina
2 Senecio vernalis
3 Stenanthium Gramineum (not in Grey)
4 Osmorhiza brevistylis
5 Antennaria plantaginifolia
6 Aralia hispida
7 A laciniata
8 Cerastium nutans
9 ~~Houst~~ Ellisia nyctelea var ambigua
10 Chaerophyllum procumbens
11 Euphorbia Commutata
12 Draba micrantha
13 Viola ~~Canadensis~~ canadensis 2 3 4 wood
14 Erigeron bellidifolium
428 Noo

15 Veronicum Vernonia

A study of this latter species, which is, I believe very variable — would be with very large leaves would be interesting species — flowered — full grown fruit & leaves would be interesting to us

— There are 2 or 3 other new Arkansas up in the rocky regions of Missouri, which you ought to look for. a few better dried specimens would be desirable

A few good dried specimens — & good fruit of Lespedeza are desirable — Also good fruiting specimens of Nyssa

Ulmus.

Unidentified plant should be collected in fruit

Did you find Ulmus alata — the winged — Branched Ulmus on the Merrimac? I thought I saw it there.

James Engelmann

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Asa Gray

You ought to try to find out the names of plants yourself. one learns a good deal more in such an attempt.

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St Louis June 30 75

G W Letterman

Dear Sir

Sorry not to have met you yesterday. Your note warns me not to come a second of the 4th inst. and ask you a DC that I would be there today. Of course I better defer, and hope I did not inconvenience you by my (and my son's) promise to be there to day.

Your plants are of the usual interest and gave me a good deal of pleasure.

1 Dipsacus sylvestris
19 Lonchus asper
24 Linaria elatine
25 Trifolium procumbens

are introduced plants, of Sik 24 I had not seen more I left Europe the others also, with the exception of 19 are uncommon out west, but

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I have no objection to examine fresh plants for you — on the contrary, they are better for study — and these last ones were very fresh and in best condition.

all these plants make their way
west. Many have come here within
twenty years. The others are:

2. Schothera sinuata
3 Poralea Nobyschii the short one scarcely
pod ought to have warned you that it is
no Dysmodium
4 Bigonia Carolina. not seen by me before here
5 Coreopsis pulmata
6 Stylosanthes elatior
7 & 8 Osmorh. correct
9 Lechea minor a common, but interesting
little plant, evidently perennial, with
decumbent old stems, which may be con
suffrutescent as get more of it
10 Hedeoma hispida
11 Galium virgatum 12. G. Contiguum
13 correct 14 Houstonia hispida ~~over~~
longest, not Angelii, which is a delicate
15 H. patens. incisata plant
16 correct 17 Hypericum Aphuerosepalum
18 Hydrangea arborescens
19. 20. corr. 21. Potamogeton natans? (perhaps
22 Crotalaria sagittalis Canon?)
23 Oxybaphus nyctagineus var. lanceolata
Correct, reflexa Euphorb. Dentata

Yours Truly
G. Engelmann

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St Louis Nov 9 1875

Gov Letterman

Dear Sir

6/15/53

I have carefully examined your two maples and find abundant difference — I have placed the characters side by side on the other page for you to study and to examine on different trees and in different Localities, whether constant — also add the chant of bark and size and growth of tree — & wood

Any more Autumn specimens?

It is singular how our eyes are opened by study and investigation. I think I would now distinguish any single print of both Maples — while when we were Cooking here at times, the difference appeared slight and difficult to catch.

Please ascertain again the value of both species for sugar making —

yours truly

G Engelmann

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	Acer saccharinum	*Acer nigrum*
Tree	?	?
Bark	?	?
Petioles	slender, usually ~~rather~~ longer than Leaf	stouter, usually shorter than Leaf
Leaf	larger, thinner, paler	smaller, thicker & firmer, darker coloured
	sinus between the large lobes very narrow and acute	wide and obtuse
	3 upper lobes 5 dentate	3 dentate
	2 outer lobes 1 dentate	entire
Nut	obliquely oblong	subglobose
	wing not much more than twice as long as seed	about 3 times the length of seed
	narrower and almost parallel	wider and some what divaricate

Your poor specimen can be well distinguished as above — but neither the characters will hold good among thousands of trees, remarks to be seen

Engelmann, G. to

6/15/53

St Louis May 5 1876.

My dear Mr Letterman

I have spent the

whole afternoon in examining

the fine lot of Hickories, I

got this morning from you, a

few others which I gathered

yesterday. And the result is

rather unsatisfactory. The

characters of the male flowers

does not seem to be constant

or striking.

Your salicata has a peculiar

character in the anthers; the two

cells are connected only in the lower

half and divergent upwards

But I find something approaching

to it in alba, and it may an

individual peculiarity of that

tree. Look again!

I have been promised flowers

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specimens from up the River
if bottoms not overflowed!

I hope you know which
is which, of your specimens and
you can find the same trees
again in summer and in fall;
and are not as unfortunate
as I have been with a
peculiar Oak which I discovered
several years ago and took
for a hybrid. Yesterday I went
out 8 miles, to get flowers
of it and found it in place a
new rail road!

Carya porcina seems to be
the latest and to mentoza perhaps
the earliest flowering of our species.

If you know get the tree that furnishes
those red velvety leaves & which you called Q. rubra
I wish you would look at it again, I
think it is coccinea, in that case
the leaves would be still downy

While rubn becomes very early glabrous, like pubescens. I do not recollect to have examined rubus before flowering, but think it is never so very downy or woolly.

Examining my sheets. I find in my flowers of rubus, as I state, with very light stalks down, such as appears with the last catkins; in your plat of 2 weeks ago was, as I then suggested,

J. Cooperia.

very truly yours.

J. Engelmann

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A friend in Europe wishes, for a few perfectly ripe seeds, about falling asunder, of Euzoecia bulbosa. I suppose cold Mauch has killed them off — but if you should happe to meet with them, you will oblige me by getting them

yours

J. Engelmann

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GEO. ENGELMANN, M. D.
3003 *Locust Street.*

St. Louis, Mo., Saturday 187

If that is really *E. quadrangulata*, the books are wrong. Among ours only *E. sambucifolia* is classed as having "short-oblong" anthers, all others have linear-oblong moreover anthers. Now it is described as hermaphrodite. Your quadrangulata is hermaphrodite and has short versiform anthers both cells running together, horseshoe-like! Watch it! See whether there are sch trees with distinct sexes and on them the anthers different.

Does the "inner bark" contain Chlorophyll?

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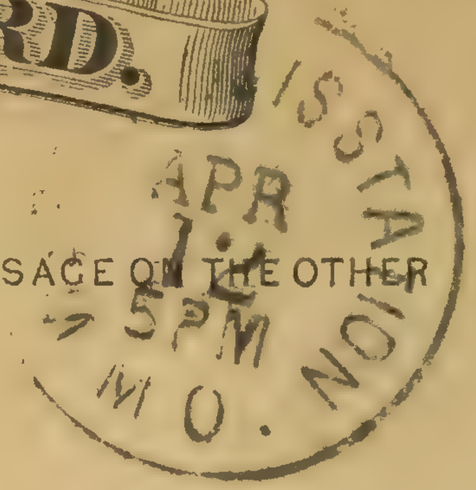

G. W. Letterman Esq

Allenton

Mo.

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GEORGE ENGELMANN PAPERS

GEO. ENGELMANN, M. D.
3003 Locust Street.

St. Louis, Mo., Apr 17 187

Yes, by all means let us have good seed of U. Amer & pulv and if possible also U. alata.

If my patients & the weather permit, I should like to be with you Saturday — if you have no other plans, answer! I will also write again.

Yours GE

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Allenton
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GEO. ENGELMANN, M. D.
3003 Locust Street.

St. Louis, Mo., ... 187

Friends and, I fear,
the weather will prevent
me from looking with you
at Carya and Quercus!
Another time! But do
forget Ulmus & your plan
Yours Ed

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May 10

I expected to have a talk with you about your finds, can not keep the room a week longer to discuss them.

The interesting part are 2 sp, that prove the expectation that we are on the trace of hybrids. alba × portina & portina × alba ×

1 sp of your portina "from the hills" has slightly ciliate leaflets — and with less sharply inserted teeth.

2 sp of your alba also. "from the hills" has very narrow leaflets, red dull and smooth, below but shining and glandular, like portina. I should like would like, if you can to rediscover those trees and watch them [illegible] [illegible] of leaves and of fruit.

Yours G E

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J. W Letterman Esq

Allenton

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GEO. ENGELMANN, M. D.
3003 Locust Street.

St. Louis, Mo., May 23 1877

I had reexamined the specimens and also taken them for a pubescent alba! The young fruit of that tree are interesting because quite irregular. It will be well to get a lot of them, and to watch the mature fruit in the fall; I will explain, when you call again.

A pint of slippery Elm is quite enough and a quart I can use. No, thanks for Engelmann. My Gonolobus is just coming up!

GE

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GEO. ENGELMANN, M. D.
3008 Locust Street.

St. Louis, Mo., Jan 17 1875

Our poplars are not at all well known and a series of specimens cultivated in the low grounds of the Arboretum would be a benefit to botany. Of course, if possible, male and female plant ought both to be planted.

P. tremuloides and grandidentata form together with the European tremula and alba a distinct section. Grandidentata & have from Ohio south and New England. tremuloides in the same locality and is said to occur also through Iowa to North Dakota. It is very abundant in the Rocky Mountains as a low bush in great elevations where it is apt to spring up after

the burning of the Pine woods and as a large tree in creek bottoms where it is the principal food of the beaver.

P. balsamifera is a northern tree, common e.g. on the great Lakes — on Goat island of the Niagara, and from New England to Wisconsin.

P. candicans of New England is said to be a form of it.

P. angustifolia of the Rocky Mountains is closely allied to it, perhaps only a narrow leaved variety; — cultivated in Denver streets as a shade tree.

P. heterophylla I have never seen; it is northern, and said to come down to the Ohio River.

The remaining Canadensis monilifera and angulata are all in a mass and must be

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standard ones.

Our common Cottonwood is considered to be angulata and the northern form (along the Lakes in New England etc) as Canadensis (or monilifera York seems the same) the characteristic Cottonwood of the upper plains, as far as Denver where it grows on the Platte within the city limits, and such is the only tree along the water courses of the plains, is probably also monilifera.

Specimens cultivated side by side would be of great interest if we could ascertain the true relations of these different forms, and whether they are distinct or belong to one single widely diffused and varying species

Respectfully

G. Engelmann

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Geo. Engelmann, M. D.
2003 Locust Street.

St. Louis, Mo., March 4 1879

My dear Mr Letterman

Your letter of Feb 9 was duly received, but you know why I could not attend to it — and now George had a relapse — a severe attack of Erysipelas. I think he is gradually improving — at least out of the severe danger. —

I understand that the best time to cut trees is late in fall; at this season the sap rises and the wood is more apt to crack. I think the best way would be to keep them sheltered from sun and rain, to avoid the alternate contraction and expansion, to prevent cracking — but I have seen them crack also under such careful treatment. It is probable that a larger piece will not crack as readily as a short section.

I have not seen such a Fig Ficus laccifera as you describe

Ahern, we have copallina and glabra here, but, I believe, not typhina. Ahern exudes a black gum, or one that turns black, and is very much like the black varnish of Japan which is also produced by — Ahern.

Had no mind to attend to any thing — and then your cactus plants

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are still neglected.

Yours truly

G. Engelmann

When you hear from Parkman &
I have written to him lately.

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GEO. ENGELMANN, M. D.
3003 *Locust Street.*

St. Louis, Mo., Jan 6 1879.

My dear mr Lesquereux

Your package has arrived & good condition. You ought to have numbered the specimens, no trouble with the R.O. — You would know then to what to refer to!

Your names seem correct except:

Andropogon Junciformis & Juncoides decurrens
Aristida angustifolia
Salvia azurea
Chrysopsis I suppose you mean the glabrous glutinosa Gnaphalia — not enough developed — get better, mature specimens or near it!
Pycnanthemum incanum
Eupatorium purpureum Carolinianum
Aconitum not enough developed to tell.

Then I find there Aristida gracilis
Panicum
Panicum Carolinianum — & perhaps (also here) Eupatorium Conyzoides.
The ferns are good. Get enough of the woodwardia (not uncommon east but not here) and of Cheilanthes Alabamensis and Vestita; the former especially is rare — but get good rooted specimens, not scraps!

The Carex I called C. tribuloides is C. Muhlenbergii and W. Arkansana. Good specimens are desirable — also

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Wood, if convenient
You must get the Jamestown & Fruit Flora.
My Texas specimens of Cheilanthes
to mentora are as large as yours.

I have a few days
I could not make any
thing of yours and Rothrock's
but I to Greg. sent it provisionally
A. Mississippiensis. — Must get more of it

Yours truly

J Engelmann

Was sent to Rothrock
by Thurber
lists Bessey annual.

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GEO. ENGELMANN, M. D.
3003 *Locust Street.*

St. Louis, Mo., April 14 1871

Thanks for Dr Vasey's letter. Too early to work up Carex, but we must go on gathering material. Prof S. never came here, he returned from N Orleans directly home, and writes me from Brookline. Address him there.

I know that rush, where they ought to know, they call the small round fruited persica missouriensis and they may be right but then, it is nothing but persica.

Yours truly

G E

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